

## ABSTRACT OF THE DISCLOSURE

A system and method for multi-telecommunication over a local IP network are provided. The multi-telecommunication system includes an IP network, a local IP network, a plurality of terminals connected to the local IP network, for conducting a voice call or a video call over the local IP network,  
5 network, for conducting a voice call or a video call over the local IP network, a home gateway connected to the IP network and the local IP network, for interfacing between the IP network and the plurality of terminals, assigning an ID and a port to each terminal to differentiate terminals sharing one IP address in processing an incoming call and an outgoing call, and converting IP and  
10 port information in the header and payload of a received or transmitted packet according to an assigned ID and port number, and a gatekeeper connected to the IP network, for performing registration and call connection admission and managing the state of the IP network.